



KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054

Tel.: 23378383, 23375326, E-mail: kthblr@gmail.com Website: www.karnatakatesthouse.com

Report No. : KTH/ CEMENT/ 0174-0281/2014-2015

Date: 03.05.2014

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : The Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Samudya Bhavana first floor in 4th phase in ward No.03.

Name of Contractor* : Mr. Somashekara Reddy. M, Bangalore.

Source of Sample : Supplied by the Customer.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Dalmia 53 Grade.

Sample Received on : 26.04.2014.

Period of Test : 26.04.2014 to 03.05.2014.

Technical Reference : IS: 4031(Part I-VI) 1988 (Reaffirmed-2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	26.0 %	Not specified	-
2	Initial setting time	138 minutes	Shall not be less than 30 minutes	P
3	Final setting time	284 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 $\pm$ 1h (3 days) b. 168 $\pm$ 2h (7 days) c. 672 $\pm$ 4h (28 days)	27.90 MPa 38.54 MPa T.T.C	Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	P P -
5	Fineness (By Blaine's air permeability method)	297.14 m ² /kg	Shall not be less than 225 m ² /kg	P
6	Soundness (Le-chatlier's method)	0.94 mm	Shall not be more than 10 mm	P

P: Passes IS requirement

F: Fails IS requirement

T.T.C: Test To be Conducted.

*As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.

B. S. Prasad



S. Sreenivasa C.
(SREENIVASA.C.)
TECHNICAL MANAGER

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
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Report No. : KTH/C.AGG/174-0279/2014-2015

Date: 29.04.2014

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : The Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Samudya Bhavana first floor in 4th phase in ward No.03.

Name of Contractor* : Mr. Somashekara Reddy. M, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 26.04.2014.

Technical Reference : IS: 2386 Part I to VIII- 1963 (Reaffirmed-2002). IS : 383 - 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 - 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100.0	100	100	100	100	Falls in Zone -II as per table 4 of IS-383 - 1970.
2	4.75	92.0	90 - 100	90 - 100	90 - 100	95 - 100	
3	2.36	85.8	60 - 95	75 - 100	85 - 100	95 - 100	
4	1.18	68.8	30 - 70	55 - 90	75 - 100	90 - 100	
5	0.600	47.4	15 - 34	35 - 59	60 - 79	80 - 100	
6	0.300	9.3	5 - 20	8 - 30	12 - 40	15 to 50	
7	0.150	3.7	0 - 10	0 - 10	0 - 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 - 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	1.5	Shall not be more than 3.0 %.
2.	Fineness Modulus	2.9	Min - 2.0 Max - 3.5

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(SREENIVASA.C.)
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Report No.: KTH/ST/174-0280/2014-2015

Date: 29.04.2014

TEST REPORT ON STEEL BARS

Name of the Customer* : The Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Samudya Bhavana first floor in 4th phase in ward No.03.

Name of Contractor* : Mr. Somashekara Reddy, M, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 26.04.2014.

Nature of Sample* : Reinforcement steel – 10mm.

Technical Reference : Tensile IS: 1786 – 2008 & IS: 1608-1995 (Reaffirmed-2000)
Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed-2000)

Grade of Steel* : Fe-500.

TENSILE TEST:

Dia (mm)	10	Limits as per IS : 1786-2008, Gr. Fe 500
Weight / unit length (kg/m)	0.594	10mm – 0.574 Min
Yield Stress (N/mm ²)	547.77	500 Min
Tensile Strength (N/mm ²)	649.68	8% More than actual 0.2% proof stress but not less than 545 N/mm ²
% Elongation (on 5.65 √A.G.L)	20.0	12.0 Min.

BEND TEST:

Sl No.	Dia (mm)	Mandrel diameter	Observations
1.	10	4 dia	No cracks observed. Passes the test.

REBEND TEST:

Sl No.	Dia (mm)	Mandrel diameter	Observations
1.	10	5 dia	No cracks observed. Passes the test

* As furnished by the Customer

For KARNATAKA TEST HOUSE PVT. LTD.

B. S. Sreenivas



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Report No. : KTH/B/174-0277/2014-2015

Date: 29.04.2014

TEST REPORT ON WIRE CUT CLAY BRICKS.

Name of the Customer* : The Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Samudya Bhavana first floor in 4th phase in ward
No.03.

Name of Contractor* : Mr. Somashekara Reddy, M. Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 26.04.2014

Name of the Brand & Nos.* : 5 Nos.

Technical Reference : IS: 3495 (Part I-IV) 1992 (Reaffirmed - 2002)
IS: 1077 - 1992 (Reaffirmed - 1997)

WATER ABSORPTION TEST

Sl. No.	Water Absorption % by Wt. Individual	Avg. %	Remarks
1	12.48	13.16	Shall not be more than 20% by weight upto class 12.5 & 15% by weight for higher classes as per IS: 1077 - 1992.
2	12.86		
3	13.91		
4	14.25		
5	12.30		

COMPRESSIVE STRENGTH

Sl. No.	Measured Dimensions (mm) L x B x D	Loaded area mm ² L x B	Max. Load KN	Compressive Strength N/mm ²	Avg. N/mm ²	Remarks
1	211 x 96 x 75	20256	106	5.23	6.20	Sample conforms to Class 5.0 Designation As per Table 1 of IS: 1077 - 1992
2	214 x 93 x 70	19902	102	5.13		
3	214 x 95 x 70	20330	156	7.67		
4	212 x 95 x 72	20140	138	6.85		
5	214 x 95 x 73	20330	124	6.10		

*As furnished by the Customer.

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(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/CT/174-0276/2014-2015

Date: 29.04.2014

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Project* : - Construction of Samudya Bhavana first floor in 4th phase in ward No.03.

Name of the Contractor* : Mr. Somashekara Reddy. M. Bangalore.

Sample Received on : 26.04.2014.

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at* (Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm ²)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm ²
1.	RCC	M ₂₀	21.03.2014	26.04.2014	Above 28 days	22500	8.040	1055	46.88
2		-	-	-	-	-	8.460	1445	64.22
3.		-	-	-	-	-	8.400	1182	52.53

1 N/Sq.mm = 10Kg/Sq.cm. (Approx.)

*As Furnished by the Customer

**Based on the data furnished by the Customer

Note: A minimum of three cube specimens shall be supplied for testing as per IS: 516-1959

for KARNATAKA TEST HOUSE PVT. LTD.



(SREENIVASA.C.)
TECHNICAL MANAGER

B. N. Radhakrishna